

Application No.: 10/077,616
Amdt. dated June 28, 2004
Reply to Final Office Action of March 29, 2004

PATENT
Docket No. 14402-0072

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A particle size distribution measuring apparatus comprising:

a sample cell;

a light source section of-irradiating two or more laser lights having a plurality of wavelengths to the sample cell;

at least two detectors configured to measure the an intensity of a direct light passing through the sample cell and light scattered by said particles at respective scattering angles, each detector configured to measure the intensity of light of one of the plurality of wavelengths within the same measuring range; and

an arithmetic processing section configured to determine the particle size distribution by using the intensity of the laser light at a-the first wavelength for the region of the particle size having low sensitivity, and a laser light at a-and second wavelengths in the whole range of the particle size to be measured to be measured by the detectors.

2. (Original) The apparatus of claimed 1 wherein said light source section further comprises a plurality of light sources capable of irradiating laser lights at a plurality of different wavelengths.

3. (Previously Amended) The apparatus as claimed 1 wherein said detector is configured to measure the intensity of the direct light and light scattered by said particles at respective scattering angles irrespective of the wavelength of the laser light.

4. (Previously Amended) The apparatus of claim 1 where said light source irradiates laser light at plurality of wavelengths sequentially.

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5. (Previously Amended) The apparatus of claim 1 further comprising a shutter configured to transmitting laser light of a selected wavelength and prevent the transmission of laser light at another wavelength.

6. (Original) The apparatus of claim 1 wherein said light source section irradiates a first laser light having a first wavelength and at least a second laser light having a second wavelength, wherein said first wavelength is at least 1.5 times larger than said second wavelength.